IN THE CLAIMS:

Please amend claim 5 as follows.

- 1. (Original) A switch using indicators for address learning comprising:
- a first activator configured to control a first indicator to indicate when a source address needs to be learned and when a source address has been learned;

a second activator configured to control a second indicator to indicate when a destination address has not been learned and when a destination address has been learned; and

a third activator configured to control a third indicator to indicate when a source address has not been learned in all switches.

- 2. (Original) The switch as recited in claim 1 wherein said second activator is configured to set the second indicator when there is a destination address lookup failure.
- 3. (Original) The switch as recited in claim 1 wherein said third activator is configured to set the third indicator if the second indicator is set before a destination address lookup, there is no destination address lookup failure and the address originated from the switch.

- 4. (Original) The switch as recited in claim 1 wherein said first activator configured to set the first indicator if there is a source address lookup failure or if the third indicator has been activated.
- 5. (Currently Amended)The switch as recited in claim 1 wherein:
 said first activator is configured to set the first indicator in a header if there is a
 source address lookup failure or if the third indicator has been activated; and
 said second activator is configured to set the second indicator in a header when
 there is a destination address lookup failure.
- 6. (Original) The switch as recited in claim 1 wherein said third activator is configured to set the third indicator in an ARL Table if the second indicator is set before a destination address lookup, there is no destination address lookup failure and the address originated from the switch.
- 7. (Original) The switch as recited in claim 1 further comprising an address learner configured to learn an address when said first indicator is set.
- 8. (Original) The switch as recited in claim 1 further comprising an address learner configured to learn an address by storing information of an address in an ARL table.

9. (Original) A switch for address learning comprising:

an first indicator means for indicating when a source address needs to be learned and when a source address has been learned;

an second indicator means for indicating when a destination address has not been learned and when a destination address has been learned; and

an third indicator means for indicting when a source address has not been learned in all switches.

- 10. (Original) The switch as recited in claim 9 wherein said second indicator means activates a second indicator when there is a destination address lookup failure.
- 11. (Original) The switch as recited in claim 9 wherein said third indicator means activates a third indicator if the F Bit is set before a destination lookup, there is no destination lookup failure and the address originated from the switch.
- 12. (Original) The switch as recited in claim 11 further wherein said first indicator means activates a second indicator if there is a source address lookup failure or if the third indicator has been activated.

- 13. (Original) The switch as recited in claim 9 further comprising an address learner means for learning an address when said first indicator means indicates that a source address needs to be learned.
- 14. (Original) The switch as recited in claim 9 further comprising an address learner means for learning an address by storing information of an address in an ARL table.
 - 15. (Original) A method of address learning comprising the steps of: receiving a packet in a switch;

performing a destination address lookup;

setting a first indictor if there is a destination address lookup failure;

setting a second indicator if the first indicator was set before the destination address lookup, there is no destination lookup failure, and the switch is the originating switch;

performing a source address lookup;

setting a third indicator if there is a source address lookup failure or if said second indicator is set; and

learning an address if said third indicator is set.

- 16. (Original) The method as recited in claim 15 wherein said first indicator and said third indicator are set in a header.
- 17. (Original) The method as recited in claim 15 wherein said second indicator is set in an ARL Table.